

**Chief Patron**

Thiru. Mangat Ram Sharma, IAS.,  
Convener, Vice-Chancellor Committee

**Patron**

Dr. N. Jeyakumar  
Dr. P. Thirunavukkarasu  
Members, Vice-Chancellor Committee  
Dr. B. Vanitha,  
Registrar i/c

**ORGANIZING COMMITTEE**

Dr. S. Saravanan, Professor & Head  
(Coordinator)  
Dr. S. Narayanamoorthy, Asst. Professor, BU  
Dr. M. Muthamilselvan, Asst. Professor, BU  
Dr. R. Rakkiyappan, Asst. Professor, BU  
Dr. N. Annapoorani, Asst. Professor, BU  
Ms. N. Anitha, Asst. Professor, BU

**INVITED SPEAKERS**

Prof. R Panneer Selvam  
University of Arkansas, USA

Prof. Satyajit Roy  
IIT Madras, Chennai

Prof. Sashikumaar Ganesan  
IISc, Bangalore



**International Workshop on  
Computational Fluid Dynamics  
(Dec 11, 2018)**

Organized by

**Centre for Differential Equations  
and Fluid Dynamics,  
Department of Mathematics**



**BHARATHIAR UNIVERSITY**

(Re-Accredited with "A" Grade by NAAC)

**Coimbatore 641046**

**Tamilnadu**

## About the University

Bharathiar University was established at Coimbatore by the government of Tamilnadu in 1982 under the provision of the Bharathiar University Act, 1981. In 1985 the University received the recognition from University Grants Commission (UGC) New Delhi for the purpose of grants. The University named after the great national poet *Subramania Bharathi* is enshrined with the motto "Educate to Elevate". It is the aim of the University to participate in the task of inculcating necessary knowledge, skills, creative attitudes and values among the youth.

The University is situated at the backdrop of Maruthamalai Hills in the Western Ghat range, in a sprawling campus of 1000 acres of land. As of now the University has 108 affiliated colleges, 96 Arts and Science colleges, 5 University Constituent colleges, and 1 Air Force Administration college. In addition, there are 31 Research Institutes of the State and Central Governments, which are recognized by this University for research purpose.

The Department of Science and Technology (DST), Government of India is supporting eight Departments under FIST programme. In addition, it has sanctioned Rs.17 Crores for the R&D contribution of the University under its PURSE (Phase-II) programme. The UGC supports 12 Departments through its Special Assistance Programme (SAP). The University established the DRDO-BU Centre for Life Sciences as a joint venture by DRDO, Bharathiar University and Government of Tamilnadu to engage research in advanced areas of Life Sciences and Multidisciplinary Areas, relevant to defence.

## About the Department

The Department of Mathematics was established in 1978 as the Department of Applied Mathematics in the erstwhile Post Graduate Centre of University of Madras. Later in 1982 when Bharathiar

University was formed by the Government of Tamilnadu, the Department came under the aegis of Bharathiar University. This Department was the first in the University to get recognized by UGC under its Special Assistance Programme (SAP) in 2002. Recently it has been upgraded to the third stage of SAP. The Department offers M.Sc., M.Phil. and Ph.D. programmes in Mathematics with more emphasis on Applied Mathematics.

The Department conducts various research activities which are of fundamental and applied in nature, particularly the in the areas Differential Equations, Fluid Dynamics and Fuzzy Mathematics. Currently the Department has five members of faculty in different cadres. The Department is getting a separate library grant of Rs. 6 lakhs every year from the NBHM and has a good collection books in its library. The Department also provides computing facility created at a cost of 80 lakhs through PURSE (DST) programme. The members of faculty are periodically visiting foreign countries for carrying out research in the frontier areas.

## Aim of the Workshop

In keeping with the University vision of cultivating a culture of academic excellence on campus, the Department of Mathematics organizes seminars, conferences and workshops to sustain high quality education in the discipline of Mathematics. The aim of this workshop is to introduce some basic as well as current scenarios in CFD to aspiring post graduate students, research scholars and young teachers. The workshop is open for all interested individuals who have studied a basic course on Fluid Dynamics.

### **There is no Registration Fee.**

For more information one may contact  
The Workshop Coordinator  
E-Mail : [mathsbu@gmail.com](mailto:mathsbu@gmail.com)  
Phone: 0422-2428415



Centre for Differential Equations and Fluid Dynamics,  
 Department of Mathematics,  
 Bharathiar University, Coimbatore 641 046  
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One Day  
**International Workshop on  
 COMPUTATIONAL FLUID DYNAMICS**

(11 Dec 2018, Tuesday)

Programme Schedule

09:15 h – 09:45 h	Registration	
09:45 h – 10:00 h	Inauguration	
	Speaker	Title of talk
Session - I 10:00 h – 11:20 h	<b><i>Prof. R Panneer Selvam</i></b>  Director - Computational Mechanics Lab, University of Arkansas, Fayetteville, USA	Computational fluid dynamics for environmental and multiphase flows
Tea		
Session - II 11:40 h – 13:00 h	<b><i>Prof. Sashikumaar Ganesan</i></b>  Chairman - Dept. Comp. Data Sciences, Head – Computational Math. Group, IISc, Bangalore	Finite element computations of viscoelastic flows with moving boundaries
13:00 h – 14:00 h	Lunch	
Session – III 14:00 h – 15:20 h	<b><i>Prof. Satyajit Roy</i></b>  Professor - Dept. of Mathematics, IIT Madras, Chennai	Equations of computational fluid dynamics
Tea		
Session – IV 15:40 h – 17:00 h	<b><i>Prof. Panneer Selvam</i></b>  Director - Computational Mechanics Lab, University of Arkansas, Fayetteville, USA	Convection modeling and solution of incompressible NS equations
Valediction		

# One Day International Workshop on Computational Fluid Dynamics

Date: 11<sup>th</sup> December 2018

Venue: Seminar Hall, Department of Mathematics

## Participant list

Sl. No.	Reg. No.	Student Name
1	17MATA01	Agila M
2	17MATA02	Aishwarya Nandhini R
3	17MATA03	Akila B
4	17MATA04	Archana K
5	17MATA05	Arivazhagi R
6	17MATA06	Ayisha Nishana M
7	17MATA07	Balasubramanian M
8	17MATA09	Chesintha C
9	17MATA10	Gayathri S
10	17MATA11	Hariharan S
11	17MATA13	Jisna John
12	17MATA14	Kannan R
13	17MATA15	Karnan S
14	17MATA16	Karthika C
15	17MATA17	Karthika R
16	17MATA18	Karthikeyan K
17	17MATA19	Kokila K
18	17MATA20	Kousalya K
19	17MATA21	Krithika B
20	17MATA22	Loganayaki C
21	17MATA23	Madhumitha S
22	17MATA24	Megala P
23	17MATA25	Menaga V S
24	17MATA26	Mercy Jenifer V
25	17MATA28	Mounika A
26	17MATA29	Myvilichelvi K M
27	17MATA30	Narmadha K
28	17MATA32	Pavithra M
29	17MATA34	Prema B
30	17MATA35	Priyanka M
31	17MATA36	Priyanka R
32	17MATA37	Ranjitha S
33	17MATA38	Sasirekha S
34	17MATA41	Suguna S
35	17MATA42	Tamilarasan M
36	17MATA43	Vijithra V K
37	17MATA44	Abdul Hakeem T H
38	17MATA45	Angelin Mabel K
39	17MATA46	Aruna S
40	17MATA47	Bahavathi A

S. S. S. S.

41	17MATA48	Balasaranya N
42	17MATA50	Divya S
43	17MATA53	Karthi M
44	17MATA54	Karthi R
45	17MATA55	Karthickraja S
46	17MATA56	Kavitha C
47	17MATA57	Logeshwaran S
48	17MATA58	Lavanya M
49	17MATA59	Madhavakumar M S
50	17MATA60	Madhupriya R
51	17MATA61	Nandhini N
52	17MATA62	Pavithra J
53	17MATA63	Prabu N
54	17MATA65	Rajeshwari S
55	17MATA66	Santhiya V
56	17MATA67	Saranya S
57	17MATA68	Sathishkumar P
58	17MATA69	Selvakumar R
59	17MATA71	Sivaranjani G S
60	17MATA72	Sivasubramanian R
61	17MATA73	Sridevi J
62	18MATA01	Abi M
63	18MATA02	Anitha V
64	18MATA03	Arivazhagan J
65	18MATA05	Deepa M
66	18MATA07	Divya J
67	18MATA08	Fathimuthu Johra A
68	18MATA09	Gifteena Hingis Y M
69	18MATA11	Indhu G
70	18MATA13	Jamilaa Afreen M
71	18MATA14	Janani K
72	18MATA15	Jayashree M
73	18MATA16	Kalaivani B
74	18MATA18	Kannika M
75	18MATA19	Karthik S
76	18MATA20	Keerthana N
77	18MATA21	Kousalya K
78	18MATA22	Logarasu S
79	18MATA24	Monika Sri S
80	18MATA25	Mownicka S
81	18MATA26	Mythili S
82	18MATA27	Neepha M V
83	18MATA29	Praveen A
84	18MATA30	Praveena R R
85	18MATA31	Poorani A K
86	18MATA32	Rasikaa S
87	18MATA33	Reena K

88	18MATA34	Renuka T
89	18MATA35	Saidhivya A
90	18MATA36	Saranya B
91	18MATA39	Sivaranjani M
92	18MATA40	Suvitha K
93	18MATA41	Vaishnavi P
94	18MATA42	Varshni M
95	18MATA43	Yugavathi V
96	18MATA44	Yuvasri N K
97	18MATA48	Brindda M
98	18MATA49	Dharanya G
99	18MATA50	Dhivya M
100	18MATA51	Dinesh Kumar M
101	18MATA52	Gowthami P
102	18MATA53	Harini V
103	18MATA54	Hemavathy C
104	18MATA55	Indhumathi R
105	18MATA56	Iniya S
106	18MATA57	Janani D
107	18MATA58	Jeevanantham G
108	18MATA59	Karthika G
109	18MATA60	Kavitha R
110	18MATA62	Manju N
111	18MATA65	Priya K
112	18MATA66	Priyadharshini K
113	18MATA68	Priyanka P
114	18MATA69	Ramya U
115	18MATA70	Saranya N
116	18MATA71	Sarika T
117	18MATA73	Sreevijitha S
118	18MATA75	Sukrutha S
119	18MATA76	Vanishree M
120	18MATA77	Vidhya K

*S. S. S. S.*

**Professor and Head**  
Department of Mathematics  
Bharathiar University  
Coimbatore - 641 046